

**LISTING OF CLAIMS**

- 1           1.   (Previously Presented) A method comprising:  
2           modifying an original header associated with an original data packet wherein key  
3           information is added;  
4           encrypting original data associated with the original data packet in response to the  
5           key information; and  
6           forming an encrypted data packet including the modified header and the  
7           encrypted data,  
8           wherein the modified header is a same size as the original header.
- 1           2.   (Previously Presented) The method according to claim 1 further  
2           comprising receiving a unique key identifier associated with the encrypted data packet.
- 1           3.   (Previously Presented) The method according to claim 2 wherein the  
2           modifying further comprises modifying the original header in response to the unique key  
3           identifier.
- 1           4.   (Original) The method according to claim 1 wherein the modifying  
2           further comprises replacing the fragmentation identification and fragment offset of the  
3           original header with a mixing key and an offset.
- 1           5.   (Original) The method according to claim 1 wherein the original data  
2           packet and the encrypted data packet utilize Internet Protocol version 4.

6. (Previously Presented) A system comprising:

means for modifying an original header associated with an original data packet wherein key information is added;

means for encrypting original data associated with the original data packet in response to the key information; and

means for forming an encrypted data packet including the modified header and the encrypted data, wherein the modified header is a same size as the original header.

7-9 (Canceled).